

# HAMILTON, BROOK, SMITH & REYNOLDS, P.C.

## FREE TRANSMITTAL FOR PATENT APPLICATIONS

Attorney Docket Number 0725.1059-001  
Application Number 10/050,673  
First Named Inventor David M. Knipe

CLAIM CALCULATION (includes any preliminary amendment)

CLAIMS	(1) FOR	(2) NUMBER FILED	(3) NUMBER EXTRA	(4) RATE	(5) CALCULATIONS
TOTAL CLAIMS (37 CFR 1.16(c) or (j))	33	- 20* =	13	x \$ 18 =	\$ 234
INDEPENDENT CLAIMS (37 CFR 1.16(b) or (i))	5	- 3** =	2	x \$ 84 =	\$ 168
MULTIPLE DEPENDENT CLAIMS (if applicable) (37 CFR 1.16(d))				+ \$ 280 =	\$
				BASIC FEE (37 CFR 1.16(a) or (h))	\$ 740
				Total of above Calculations =	\$ 1142
				Reduction by 50% for filing by small entity (37 CFR 1.9, 1.27, 1.28) =	\$ 571
				TOTAL =	\$ 571
				Surcharge - Late Filing of Declaration or Filing Fees (37 C.F.R. 1.16(e)) =	\$ 65
				Petition for Extension of Time Fee (37 C.F.R. 1.17) =	\$
				Assignment Recordation Fee = (only when filed with application)	\$
				TOTAL =	\$ 636

\* Reissue claims in excess of 20 and over original patent  
\*\* Reissue independent claims over original patent

### 1. Small entity status:

- a. ☒ A small entity statement is enclosed.
- b. ☐ A small entity statement was filed in the prior non-provisional application and such status is still proper and desired.
- c. ☐ Is no longer claimed.

2. ☒ A general authorization is hereby granted to charge deposit account number 08-0380 for any fees required under 37 CFR 1.16 and 1.17 in order to maintain pendency of this application. A copy of this authorization is enclosed for accounting purposes.

3. ☒ A check is enclosed for \$636. ☐ Please charge \$[ ] to Deposit Account No. 08-0380.

4. ☐ Other: \_\_\_\_\_

Signature

Date

Submitted by  
Typed or Printed Name

Antoinette G. Giugliano

Reg. Number

42,582

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: David M. Knipe, Travis J. Taylor, Elizabeth E. McNamee

Application No.: 10/050,673

Group: 1648

Filed: January 16, 2002

Examiner: not assigned

For: Replication-competent Virus Expressing a Detectable Fusion Protein



<b>CERTIFICATE OF MAILING</b>	
I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as First Class Mail in an envelope addressed to Assistant Commissioner for Patents, P.O. Box 2327, Arlington, VA 22202	
on <u>4/11/02</u>	<u>Annie Demirel</u>
Date	Signature
<u>Annie Demirel</u>	
Typed or printed name of person signing certificate	

REPLY TO NOTICE TO FILE MISSING PARTS OF APPLICATION

Box Missing Parts  
Assistant Commissioner for Patents  
P.O. Box 2327  
Arlington, VA 22202

Sir:

In reply to the Notice to File Missing Parts dated February 13, 2002, the following documents and fees are being submitted for filing in the captioned application. A copy of the Notice is attached.

☐ **EXECUTED DECLARATION FOR PATENT APPLICATION**

*(Separate transmittal letter and postcard not required)*

☐ **POWER OF ATTORNEY DOCUMENT**

☐ **GRANTED BY INVENTOR(S)**

☐ **GRANTED BY ASSIGNEE, including Statement under 37 C.F.R. 3.73(b)**

*(Separate transmittal letter and postcard not required)*

☐ **PRELIMINARY AMENDMENT**

*(Separate transmittal letter and postcard not required)*

☒ **FILING FEE** - with Fee Transmittal for Patent Applications in duplicate

Fee calculations based on:

☒ Claims as originally filed

☐ Claims upon entry of the Preliminary Amendment filed [herewith] [with the application]

*(Separate transmittal letter and postcard not required)*

☒ **SURCHARGE** - surcharge fee of \$65.

*(Separate transmittal letter and postcard not required)*

☐ **SEQUENCE LISTING** - Filed concurrently and is attached

*(Separate transmittal letter and postcard required)*

☐ **SUBSTITUTE DRAWINGS**

☐ Sheets of substitute drawings consisting of Figs. 1 - ☐ are enclosed

*(Separate transmittal letter and postcard not required)*

☐ **PETITION FOR EXTENSION OF TIME**

☐ Applicant hereby petitions to extend the time to respond to the Notice to File Missing Parts dated ☐ for ☐ month(s) from ☐ to ☐ The appropriate fee of \$☐ is included in the enclosed check

☐ A ☐ month extension of time to respond to the Notice to File Missing Parts dated ☐ was filed on ☐ with payment of a \$☐ fee

☐ Applicant hereby petitions for an additional ☐ month extension of time to respond to the Notice to File Missing Parts. The appropriate fee of \$☐ is included in the enclosed check

*(Separate Petition for Extension of Time and postcard not required)*

☒ **REQUEST FOR CORRECTED FILING RECEIPT** - Filed concurrently and is attached

*(Separate transmittal letter and postcard required)*

☒ **STATEMENT CLAIMING SMALL ENTITY STATUS**

☐ Was filed on ☐

☒ Is enclosed herewith

*(Separate transmittal letter and postcard not required)*

☐ In view of the small entity status of the captioned application, we hereby request a reimbursement of 50% of the filing fees in the amount of \$☐ which were paid on ☐ to be deposited in Deposit Account No. 08-0380

The fees required for filing the indicated documents are enclosed in the form of a check in the total amount of \$636. Please charge any deficiency or credit any overpayment in the fees that may be due in this matter to Deposit Account No. 08-0380. A copy of this letter is enclosed for accounting purposes.

Respectfully submitted,

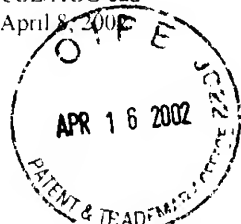
HAMILTON, BROOK, SMITH & REYNOLDS, P.C.

By Antoinette G. Giugliano

Antoinette G. Giugliano  
Registration No.: 42,582  
Tel.: (978) 341-0036  
Fax: (978) 341-0136

Concord, Massachusetts 01742-9133

Date: 4/11/02



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: David M. Knipe, Travis J. Taylor, Elizabeth E. McNamee  
Application No.: 10/050,673 Group: 1648  
Filed: January 16, 2002 Examiner: not assigned  
For: Replication-competent Virus Expressing a Detectable Fusion Protein

CERTIFICATE OF MAILING	
I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as First Class Mail in an envelope addressed to Assistant Commissioner for Patents, P.O. Box 2327, Arlington, VA 22202	
on <u>4/11/02</u>	<u>[Signature]</u>
Date	Signature
<u>Annie I. Ferrer</u>	
Typed or printed name of person signing certificate	

REQUEST FOR CORRECTED FILING RECEIPT  
FOR UTILITY APPLICATION

Office of Initial Patent Examination  
Customer Service Center  
Assistant Commissioner for Patents  
P.O. Box 2327  
Arlington, VA 22202

Sir:

We hereby request that the following items of information be corrected in the Filing Receipt for the subject application received in this office on February 19, 2002.

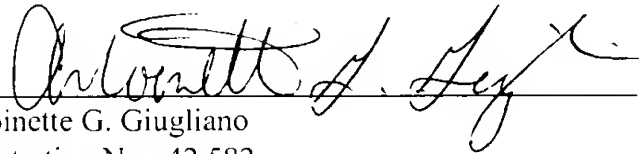
The filing receipt lists the total claims as 26; the total claims should be changed to 33.  
The filing receipt lists the number of independent claims as 3; the number of independent claims should be changed to 5.

Enclosed are copies of the Filing Receipt with changes noted in red and Fee transmittal for Patent Application which is being filed concurrently herewith.

Pursuant to instructions in the February 29, 2000 O.G., we hereby request that the errors which are identified above be corrected in the captioned application to which this request for correction is directed. It is understood that the Patent Office will issue an automatically-generated, corrected Filing Receipt in this and, if applicable, any other affected applications.

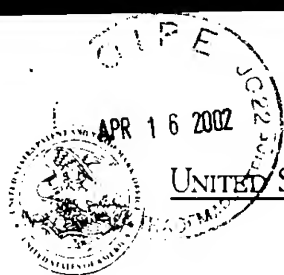
Respectfully submitted,

HAMILTON, BROOK, SMITH & REYNOLDS, P.C.

By   
Antoinette G. Giugliano  
Registration No.: 42,582  
Telephone: (978) 341-0036  
Facsimile: (978) 341-0136

Concord, MA 01742-9133

Date: 4/11/02



## UNITED STATES PATENT AND TRADEMARK OFFICE

COMMISSIONER FOR PATENTS  
UNITED STATES PATENT AND TRADEMARK OFFICE  
WASHINGTON, D.C. 20231  
www.uspto.gov

APPLICATION NUMBER	FILING DATE	GRP ART UNIT	FIL FEE REC'D	ATTY DOCKET NO	DRAWINGS	TOT CLAIMS	IND CLAIMS
10/050,673	01/16/2002	1648	0.00	0725.1059-001	12	2633	85

CONFIRMATION NO. 6587

## FILING RECEIPT



\*OC000000007463914\*

021005

HAMILTON, BROOK, SMITH & REYNOLDS, P.C.  
530 VIRGINIA ROAD  
P.O. BOX 9133  
CONCORD, MA 01742-9133

Date Mailed: 02/13/2002

Receipt is acknowledged of this nonprovisional Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. **If an error is noted on this Filing Receipt, please write to the Office of Initial Patent Examination's Customer Service Center. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).**

## Applicant(s)

David M. Knipe, Auburndale, MA;  
Travis J. Taylor, Brookline, MA;  
Elizabeth E. McNamee, Brighton, MA;

## Assignment For Published Patent Application

President and Fellows of Harvard College, Cambridge, MA;

## Domestic Priority data as claimed by applicant

THIS APPLICATION IS A CON OF 09/127,227 07/31/1998

## Foreign Applications

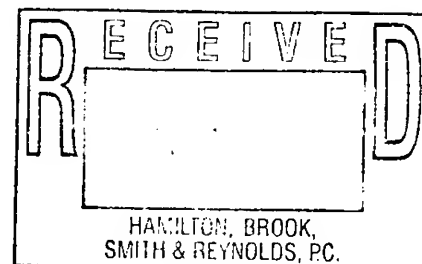
If Required, Foreign Filing License Granted 02/12/2002

Projected Publication Date: To Be Determined - pending completion of Missing Parts

Non-Publication Request: No

Early Publication Request: No

Title



Replication-competent virus expressing a detectable fusion protein

**Preliminary Class**

435

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**LICENSE FOR FOREIGN FILING UNDER  
Title 35, United States Code, Section 184  
Title 37, Code of Federal Regulations, 5.11 & 5.15**

**GRANTED**

The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR 1.53(d). This license is not retroactive.

The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Office of Export Administration, Department of Commerce (15 CFR 370.10 (j)); the Office of Foreign Assets Control, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

**NOT GRANTED**

No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).



## UNITED STATES PATENT AND TRADEMARK OFFICE

COMMISSIONER FOR PATENTS  
UNITED STATES PATENT AND TRADEMARK OFFICE  
WASHINGTON, D.C. 20231  
www.uspto.gov

APPLICATION NUMBER	FILING RECEIPT DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET NUMBER
10/050,673	01/16/2002	David M. Knipe	0725.1059-001

CONFIRMATION NO. 6587

021005  
HAMILTON, BROOK, SMITH & REYNOLDS, P.C.  
530 VIRGINIA ROAD  
P.O. BOX 9133  
CONCORD, MA 01742-9133

## FORMALITIES LETTER



\*OC000000007463915\*

Date Mailed: 02/13/2002

## NOTICE TO FILE MISSING PARTS OF NONPROVISIONAL APPLICATION

FILED UNDER 37 CFR 1.53(b)

*Filing Date Granted*

An application number and filing date have been accorded to this application. The item(s) indicated below, however, are missing. Applicant is given **TWO MONTHS** from the date of this Notice within which to file all required items and pay any fees required below to avoid abandonment. Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a).

- The statutory basic filing fee is missing.  
*Applicant must submit \$ 740 to complete the basic filing fee for a non-small entity. If appropriate, applicant may make a written assertion of entitlement to small entity status and pay the small entity filing fee (37 CFR 1.27).*
- Total additional claim fee(s) for this application is \$108.
  - \$108 for 6 total claims over 20.
- To avoid abandonment, a late filing fee or oath or declaration surcharge as set forth in 37 CFR 1.16(l) of \$130 for a non-small entity, must be submitted with the missing items identified in this letter.
- The balance due by applicant is \$ 978.

*A copy of this notice MUST be returned with the reply.*

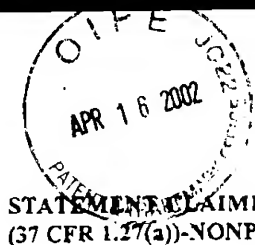
Customer Service Center  
Initial Patent Examination Division (703) 308-1202

PART 2 - COPY TO BE RETURNED WITH RESPONSE

04/18/2002 NICHAMM1 00000015 10050673

01 FC:201	370.00 OP
02 FC:203	117.00 OP
03 FC:202	84.00 OP
04 FC:205	65.00 OP





STATEMENT CLAIMING SMALL ENTITY STATUS  
(37 CFR 1.27(a))-NONPROFIT ORGANIZATION

DOCKET NUMBER: 0725.1059-001

Applicant or Patentee: David M. Knipe, Travis J. Taylor, and Elizabeth E. McNamee  
Application or Patent No.: 10/050,673  
Filed or Issued: January 16, 2002  
Title: REPLICATION-COMPETENT VIRUS EXPRESSING A DETECTABLE FUSION PROTEIN

I hereby state that I am an official empowered to act on behalf of the nonprofit organization identified below:

NAME OF NONPROFIT ORGANIZATION President and Fellows of Harvard College  
ADDRESS OF NONPROFIT ORGANIZATION 124 Mount Auburn Street  
Cambridge, Massachusetts 02138-5701

TYPE OF NONPROFIT ORGANIZATION:

- ☒ UNIVERSITY OR OTHER INSTITUTION OF HIGHER EDUCATION  
☐ TAX EXEMPT UNDER INTERNAL REVENUE SERVICE CODE (26 U.S.C. 501(a) and 501(c)(3))  
☐ NONPROFIT SCIENTIFIC OR EDUCATIONAL UNDER STATUTE OF STATE OF THE UNITED STATES OF AMERICA  
(NAME OF STATE \_\_\_\_\_)  
(CITATION OF STATUTE \_\_\_\_\_)  
☐ WOULD QUALIFY AS TAX EXEMPT UNDER INTERNAL REVENUE SERVICE CODE (26 U.S.C. 501(a) and 501(c)(3)) IF  
LOCATED IN THE UNITED STATES OF AMERICA  
☐ WOULD QUALIFY AS NONPROFIT SCIENTIFIC OR EDUCATIONAL UNDER STATUTE OF STATE OF THE UNITED  
STATES OF AMERICA IF LOCATED IN THE UNITED STATES OF AMERICA  
(NAME OF STATE \_\_\_\_\_)  
(CITATION OF STATUTE \_\_\_\_\_)

I hereby state that the nonprofit organization identified above qualifies as a nonprofit organization as defined in 37 CFR 1.27(a)(3) for purposes of paying reduced fees to the United States Patent and Trademark Office regarding the invention described in:

- ☐ the specification filed herewith with title as listed above.  
☒ the application identified above.  
☐ the patent identified above.

I hereby state that the rights under contract or law have been conveyed to and remain with the nonprofit organization regarding the above identified invention. If the rights held by the nonprofit organization are not exclusive, each individual, concern, or organization having rights in the invention must file separate statements as to their status as small entities. No rights to the invention are held by any person who would not qualify as a person under 37 CFR 1.27(a)(1) or by any concern which would not qualify as a small business concern under 37 CFR 1.27(a)(2) or a nonprofit organization under 37 CFR 1.27(a)(3).

Each person, concern, or organization having any rights in the invention is listed below:

- ☒ no such person, concern, or organization exists.  
☐ each such person, concern, or organization is listed below.

I acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate. (37 CFR 1.27(g)(2))

NAME OF PERSON SIGNING

Susanne E. Churchill  
Susanne E. Churchill  
Acting Director, Office of Technology Licensing  
& Industry Sponsored Research, Harvard Medical School